

Title (en)  
PRINTING APPARATUS

Publication  
**EP 0458612 A3 19921202 (EN)**

Application  
**EP 91304624 A 19910522**

Priority  
JP 13039190 A 19900522

Abstract (en)  
[origin: EP0458612A2] In a printing apparatus, a raster buffer for storing dot image data are divided into three layers in the direction of auxiliary scanning, and the respective layers are assigned to a writing layer in which a font pattern read from a font memory is written, a reading layer from which dot image data that have been written are read, and a write-waiting layer in which a font pattern that has overflowed the writing layer is written, with the writing layer and the write-waiting layer having a capacity for storing a character having the biggest size among those which are used frequently. Prior to printing of dot image data, a font pattern is written in the writing layer, and the definition of the layer in which writing has been made is changed to a reading layer, dot image data is then read from the reading layer, the definition of the write-waiting layer waiting for the next writing is changed to a writing layer, and the definition of the reading layer from which the reading has been made is changed to a writing layer, with such change of definition being made successively.

IPC 1-7  
**G06K 15/02**; **G06K 15/12**

IPC 8 full level  
**B41J 2/485** (2006.01); **B41J 3/30** (2006.01); **B41J 5/30** (2006.01); **G06K 15/02** (2006.01); **G06K 15/12** (2006.01); **G09G 5/22** (2006.01)

CPC (source: EP US)  
**G06K 15/02** (2013.01 - EP US); **G06K 15/128** (2013.01 - EP US); **G06K 2215/0065** (2013.01 - EP US)

Citation (search report)  
• [X] US 4694405 A 19870915 - BRADBURY COLIN [US], et al  
• [A] US 4607138 A 19860819 - SUZUKI MASAMITU [JP], et al  
• [A] PATENT ABSTRACTS OF JAPAN vol. 10, no. 281 (M-520)25 September 1986 & JP-A-61 100 472 ( FUJI XEROX CO. ) 19 May 1986  
• [A] PATENT ABSTRACTS OF JAPAN vol. 7, no. 192 (P-218)23 August 1983 & JP-A-58 092 072 ( NIPPON DENKI KK. ) 1 June 1983

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**EP 0458612 A2 19911127**; **EP 0458612 A3 19921202**; **EP 0458612 B1 19970305**; DE 69124837 D1 19970410; DE 69124837 T2 19970918; JP 2740568 B2 19980415; JP H0425478 A 19920129; US 5191430 A 19930302

DOCDB simple family (application)  
**EP 91304624 A 19910522**; DE 69124837 T 19910522; JP 13039190 A 19900522; US 69838491 A 19910510